



- NOTES**
- PRIMARY PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83 IN US SURVEY FEET BASED ON A FULLY CONSTRAINED STATIC GPS NETWORK HOLDING THE PUBLISHED MADSBCORS) 2003.00 EPOCH VALUES OF NOS CORS STATIONS: 'KENA1 CORS ARP' (KEN5 - PID DJ3029), 'ANCHORAGE CORS ARP' (TSEA - PID A10952).
 - LOCAL PROJECT HORIZONTAL CONTROL IS ALASKA STATE PLANE, ZONE 4, NAD83, IN US SURVEY FEET HOLDING MONUMENT 'HOMER BASIN 7 1965' AS N 2,049,712.22, E 1,377,964.36 AND USACE SBC 'BL-2-A' AS 32.53.
 - VERTICAL CONTROL IS MEAN LOWER LOW WATER (MLLW=0.0'), BASED ON THE NOAA/NO TIDAL BENCH MARK LIST FOR STATION '465 6557' HOMER, ALASKA, PUBLISHED 08/11/2007. THIS TIDAL DATUM IS BASED ON THE 1983-2001 TIDAL EPOCH AND IS REFERENCED BY HOLDING SBC 'BL-2-A' AS 32.53.
 - VERTICAL TIES TO THE NATIONAL SPATIAL REFERENCE SYSTEM ARE BASED ON PUBLISHED NAVD83 ELEVATIONS HOLDING USACE STANDARD BRASS CAP 'HOMER BASIN 7 1965' (PID BBDX21) AS 26.08'.
 - SOUNDINGS ARE IN U.S. SURVEY FEET AND ARE NEGATIVE UNLESS OTHERWISE INDICATED.
 - BATHYMETRY WAS COLLECTED AUGUST 24, 2017. SOUNDINGS WERE COLLECTED USING AN R2SONIC 2022 MULTIBeam ECHOSOUNDER OPERATING AT 400 KHZ. SOUND VELOCITY THROUGH THE WATER COLUMN WAS DETERMINED WITH AN ODOM DIGIBAR PRO. POSITION AND VESSEL ORIENTATION WERE MEASURED USING AN APPLINX POS/IM SYSTEM. RTK CORRECTIONS WERE BROADCAST FROM A LOCAL BASE STATION OCCUPYING HOMER 'BL-2-A'. DATA WAS COLLECTED AND PROCESSED USING HYDRACK 2017 SOFTWARE. HORIZONTAL CONTROL WAS SURVEYED USING RTK GNSS EQUIPMENT AND TECHNIQUES. VERTICAL CONTROL WAS SURVEYED USING DIFFERENTIAL LEVELING TECHNIQUES. TIDE ELEVATIONS WERE MEASURED USING A TRIMBLE RB RTK SYSTEM.
 - THIS DRAWING INDICATES GENERAL CONDITIONS AT THE TIME OF THE SURVEY.
 - MAP SOUNDINGS ARE BINNED AT 15 FEET AND ARE SHOAL-BIASED. CONTOURS AND COLOR RELIEF ARE BASED ON 3 FOOT BINNED SHOAL-BIASED SOUNDINGS. VOLUME SOUNDINGS ARE BINNED AT 3 FEET AND ARE MEAN VALUE SOUNDINGS.

SURVEY CONTROL DATA

STATION	NORTHING	EASTING	MLLW	DESCRIPTION
AUDREY	2,051,507.88	1,375,406.60	33.33	1-1/2 IN ALUMINUM CAP (FOUND)
BL-2-A 1989	2,049,793.81	1,378,015.52	32.53	USACE SBC (FOUND)
BM NO 6 1965			27.28	US&GC SBC (NOT FOUND)
BOLL 1996	2,050,682.88	1,375,195.75	35.51	3-1/4 IN FLAT BRASS CAP (FOUND)
C 103 1965			26.95	US&GC SBC (NOT FOUND)
HB-08 2009	2,050,150.78	1,377,830.73	31.93	3-1/4 IN DOMED ALUMINUM CAP (FOUND)
HB-09 2009	2,051,199.61	1,375,120.24	32.04	3-1/4 IN DOMED ALUMINUM CAP (FOUND)
HOMER BASIN 4 1965	2,050,038.11	1,378,340.09	31.29	USACE SBC (NOT SEARCH)
HOMER BASIN 5 1965	2,049,940.32	1,378,344.30	30.86	USACE SBC (FOUND, NOT GPS SUITABLE)
HOMER BASIN 6 1965	2,049,887.28	1,378,073.96	31.24	USACE SBC (FOUND)
HOMER BASIN 7 1965	2,049,712.22	1,377,964.36	31.49	USACE SBC (FOUND)

NAVIGATION AIDS

USCG NO.	NORTHING	EASTING	DESCRIPTION
26210	2,049,940	1,378,351	HOMER BREAKWATER LIGHT 2
26216	2,049,932	1,378,484	SOUTH LIGHTED MOORING BUOY

OBSTRUCTION IDENTIFIED IN 2015 SURVEY

POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
OBST-1	2,049,999.55	1,378,206.74	7.0'x 3.7'x2.8'	-18
OBST-2	2,050,060.01	1,377,988.53	5.4'x 4.5'x1.7'	-19.7
OBST-3	2,049,935.22	1,378,201.00	4.9'x 2.8'x2.1'	-20.2
OBST-4	2,049,977.06	1,378,080.24	4.8'x 3.2'x2.6'	-16.9

OBSTRUCTION IDENTIFIED IN 2017 SURVEY

POINT	NORTHING	EASTING	APPROXIMATE DIMENSIONS	ELEVATION [FT MLLW]
OBST-5	2,050,408.82	1,376,457.46	8.4'x 3.0'x1.6'	-14.2
OBST-6	2,050,281.55	1,376,791.11	9.2'x 7.1'x2.7'	-12.1
OBST-7	2,049,908.41	1,377,315.59	7.1'x3.2'x1.6'	-18.4
OBST-8	2,049,972.34	1,377,366.67	11.2'x 6.0'x 9'	-18.6
OBST-9	2,051,079.04	1,375,309.96	3.8'x 3.8'x2.6'	-9.3
OBST-10	2,050,751.35	1,375,979.40	3.8'x 2.7'x1.1'	-11.6
OBST-11	2,050,671.74	1,376,070.56	6.0'x 3.0'x1.7'	-10.9
OBST-12	2,049,862.17	1,378,295.83	8.4'x 5.7'x3.5'	-17.9
OBST-13	2,049,739.30	1,378,817.19	4.7'x 2.0'x2.6'	-17.5
OBST-14	2,049,827.53	1,378,786.35	7.3'x 4.8'x3.4'	-17
OBST-15	2,050,655.65	1,376,121.46	3.5'x3.1'x1.2'	-11.7

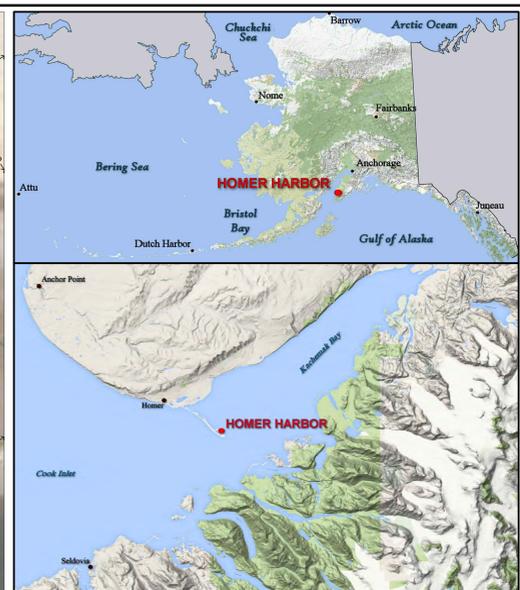
U.S. Army Corps of Engineers - ALASKA DISTRICT

CONTRACT NO. W11H617-C-0007
 CONTINUATION: ALASKA MARINE ENGINEERING
 CITY: ANCHORAGE
 STATE: ALASKA
 PROJECT: HOMER HARBOR PRE DREDGE SURVEY
 DATE: AUGUST 24, 2017

**HOMER, ALASKA
HOMER HARBOR
PRE DREDGE SURVEY
AUGUST 24, 2017**

SHEET IDENTIFICATION

2-HOM-92-07-60
Sheet 2 of 6



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U.S. ARMY CORPS OF ENGINEERS - ALASKA DISTRICT

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HOMER HARBOR
PRE DREDGE SURVEY
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